

STN

(HCAPLUS, INSPEC, JAPIO, USPATFULL)

11/2/2003

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(FILE 'HOME' ENTERED AT 04:32:25 ON 03 NOV 2007)

FILE 'HCAPLUS, INSPEC, JAPIO, USPATFULL, USPATOLD, USPAT2' ENTERED AT
04:32:45 ON 03 NOV 2007

L1 561085 S (SINGLE OR MONO) (8A) (CRYSTAL#)
L2 4490202 S (F OR FLUORIDE)
L3 124130 S (CROSS(W) SECTION?) (10A) (CONFIGURAT?)
L4 417108 S (CONTROL? OR VARY? OR ALTER? OR MANIPULAT?) (8A) (SHAPE# OR SHA
L5 618 S (CRUCIBLE#) (8A) (BOTTOM(6A) HOLE#)

=> s 11 and 12 and 13 and 14 and 15

L6 2 L1 AND L2 AND L3 AND L4 AND L5

=> d 16 1-2 abs,bib

L6 ANSWER 1 OF 2 USPATFULL on STN

AB The invention is an improved apparatus for producing monocrystalline bodies of alumina (or other materials) that are characterized by varying cross-sections, for example, a sapphire tube having an internal flange. The apparatus comprises a novel die arrangement adapted to support a thin film of melt from which the crystalline body is grown, the die being adjustable to change the configuration of the film and thereby vary the shape of the body being grown.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AN 75:57484 USPATFULL

TI Apparatus for growing crystalline bodies from the melt

IN Mlavsky, Abraham I., Lincoln, MA, United States

Pandiscio, Nicholas A., Wayland, MA, United States

PA Tyco Laboratories, Inc., Waltham, MA, United States (U.S. corporation)

PI US 3915656 19751028

AI US 1973-386176 19730806 (5)

RLI Division of Ser. No. US 1971-148589, filed on 1 Jun 1971, now abandoned

DT Utility

FS Granted

EXNAM Primary Examiner: Yudkoff, Norman; Assistant Examiner: Sanders, D.

LREP Schiller & Pandiscio

CLMN Number of Claims: 12

ECL Exemplary Claim: 1

DRWN 8 Drawing Figure(s); 2 Drawing Page(s)

LN.CNT 661

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 2 OF 2 USPATOLD on STN

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AN 1960:7561 USPATOLD

TI Crystal growing apparatus

IN WILLIAM SHOCKLEY

PI US 2927008 A 19600301

AI US 1956-618899 19561029

PRAI US 1956-618899 19561029

DT Utility

FS GRANTED

LN.CNT 322

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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